

Figure 1 depicts the amino acid sequence of PTH for a variety of species, namely humans, rats, mice, bovines, dogs and pigs and further depicts amino acid sequences identified herein as SEQ ID NO. 1, SEQ ID NO. 2, SEQ ID NO. 3, SEQ ID NO. 4, SEQ ID NO. 5, SEQ ID NO. 6, SEQ ID NO. 7, SEQ ID NO. 8, SEQ ID NO. 9, SEQ ID NO. 10, SEQ ID NO. 11, and SEQ ID NO. 12.

Figure 2 is an alternate illustration of Figure 1 depicting a variation of the 1-84 amino acid sequence of PTH of the aforementioned species, yet depicting the conserved N-terminus of PTH wherein the amino acid sequences of SEQ ID NOS. 1-12 remain constant.

Figure 3 is a diagrammatical view of the N-terminal portion of human PTH.

Figure 4 is a flow chart depicting the steps for producing antibodies according to a preferred embodiment of the present invention.

IN THE SPECIFICATION:

Please substitute the following paragraph for the paragraph appearing at Page 4, line 19 to Page 5, line 4:

--According to a preferred embodiment, the antigen comprises the formula VAL-SER-GLU-ILE-GLN-X-MET-HIS-ASN-LEU-GLY wherein X is selected from the group consisting of LEU [SEQ ID NO. 1] and PHE [SEQ ID NO. 2]. With respect to such embodiment, such antigenic peptide represents amino acid residues 2-12 of PTH, with the sixth amino acid residue thereof being selective between LEU and PHE, the former occurring in the PTH of humans, rats, mice and pigs, on one hand, and the latter, being inherent in the PTH of bovines and dogs, on the other hand. In a more highly preferred embodiment, the antigen comprises a peptide having the

formula Y-VAL-SER-GLU-ILE-GLN-X-MET-HIS-ASN-LEU-GLY wherein X is an amino acid residue selected between LEU and PHE, as discussed above, and Y is an amino acid residue consisting of either SER or ALA [SEQ ID NO. 3, SEQ ID NO. 4, SEQ ID NO. 5, and SEQ ID NO. 6, respectively], the former reflecting the amino acid present in humans, dogs, and pigs, and the latter being inherent in the PTH of rats, mice and bovines.++

Please substitute the following paragraph for the paragraph appearing at Page 5, line 5 to line 15:

~~In~~ further preferred embodiments, the antigen comprises the formula VAL-SER-GLU-ILE-GLN-X-MET-HIS-ASN-LEU-GLY-LYS-HIS-LEU wherein X is selected from the group consisting of LEU [SEQ ID NO. 7] or PHE [SEQ ID NO. 8]. Such antigenic peptide represents amino acid residues 2-15 of PTH, with the sixth amino acid residue comprising either LEU or PHE, to thus reflect the corresponding amino acid residue occurring in the appropriate species specified above. In a most highly preferred embodiment, the antigenic peptide represents amino acid residues 1-15 of PTH and comprises the formula Y-VAL-SER-GLU-ILE-GLN-X-MET-HIS-ASN-LEU-GLY-LYS-HIS-LEU, wherein X comprises amino acid residue LEU or PHE and Y is an amino acid residue consisting of either SER or ALA [SEQ ID NO. 9, SEQ ID NO. 10, SEQ ID NO. 11, and SEQ ID NO. 12, respectively], the latter being selective to correspond to a particular species identified above.--

IN THE CLAIMS:

Please cancel Claims 1-4, 13, 18, 20-21 and 23 drawn to non-elected inventions.

Please cancel Claims 6, 11, 12, 14 and 22 without prejudice.